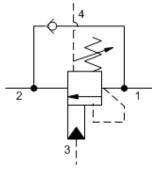


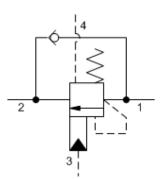
MODEL CWIK



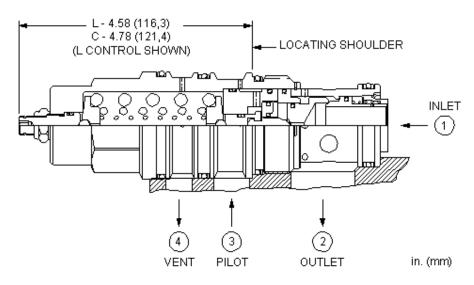




4-Port Vented



4-Port Vented, Non-adjustable



Vented counterbalance valves with pilot assist are meant to control an overrunning load. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio. Backpressure at port 2 does not affect the valve setting because the spring chamber references the vent (port 4).

Other names for this valve include motion control valve and over center valve.

TECHNICAL DATA

Pilot Ratio	1:1	
Maximum Recommended Load Pressure at Maximum Setting	imum Setting 215 bar	
Maximum Setting	280 bar	
Factory Pressure Settings Established at	30 cc/min.	
Maximum Valve Leakage at Reseat	0,3 cc/min.	
Check Cracking Pressure	1,5 bar	
Adjustment - Number of Counterclockwise Turns to Increase Setting	5	
Reseat	>85% of setting	
Locknut Hex Size	15 mm	
Locknut Torque	9 - 10 Nm	
Seal kit - Cartridge	Buna: 990-024-007	
Seal kit - Cartridge	Polyurethane: 990-024-002	
Seal kit - Cartridge	Viton: 990-024-006	

CONFIGURATION OPTIONS

Model Code Example: CWIKLHN

CONTROL	FUNCTIONAL SETTING RANGE	SEAL MATERIAL	MATERIAL/COATING
L Standard Screw Adjustment C Tamper Resistant - Factory Set	 H 1000 - 4000 psi (70 - 280 bar), 3000 psi (210 bar) Standard Setting 400 - 1500 psi (28 - 105 bar), 1000 psi (70 bar) Standard Setting 	N Buna-NV Viton	(none) Standard Material/Coating /LH Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Counterbalance valves should be set at least 1.3 times the maximum load induced pressure.
- Turn adjustment clockwise to decrease setting and release load.

- Full clockwise setting is 200 psi (14 bar).
- All 4-port counterbalance, load control, and pilot-to-open check cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size).
- Reseat exceeds 85% of set pressure when the valve is standard set. Settings lower than the standard set pressure may result in lower reseat percentages.
- Pressure at port 4 is added to the effective relief setting at a rate of 1 plus the pilot ratio times the pressure.
- Sun counterbalance cartridges can be installed directly into a cavity machined in an actuator housing for added protection and improved stiffness in the circuit.
- This valve has positive seals between all ports.
- With vented valves, a lower pilot ratio may be required to achieve machine stability compared to non-vented valves.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge
 machining variations.

PERFORMANCE CURVES

